

T00362
10/029,928In the Claims:

Please amend the claims as follows:

1. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, the residential gateway comprising:

a software module to receive control parameters from a control server via the Internet connection and cause the residential gateway to communicate with the residential device to provide control of the residential device based on the received control parameters; and

wherein the control server determines the control parameters from relevant control information accessed from one or more information servers on the Internet and ~~operational state~~ information of the residential device.

2. (original) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per claim 1, wherein the residential device is a home irrigation system that comprises:

an irrigation controller connected to the residential gateway; and
at least one sprinkler connected to the irrigation controller.

3. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per ~~claim 2~~ claim 1, wherein the control parameters are a water cycle of the irrigation system.

4. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per ~~claim 3~~ claim 1, wherein the control information is climatic information.

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5. ~~(cancelled) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per claim 4, wherein the operational information comprises water usage.~~
6. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as ~~claim 5~~ claim 3, wherein the water cycle is also determined based on an economic setpoint.
7. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per ~~claim 5~~ claim 1, wherein the information server is a weather station server that stores climatic information from a plurality of weather stations.
8. (presently amended) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per ~~claim 7~~ claim 2, wherein the irrigation controller is connected to the residential gateway via an IEEE 802.11b wireless interface.
9. (original) A residential gateway that connects an Internet connection to an in-home network which comprises at least one residential device connected to the residential gateway, as per claim 1, wherein the control parameters are also determined based on an economic setpoint.
10. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, the system comprising:
- a residential gateway connecting the in-home network to an Internet connection;

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a control server that determines control parameters for controlling the residential device, the control server determining the control parameters from relevant control information accessed from one or more information servers on the Internet and operational state information of the residential device; and

wherein the residential gateway comprises a software module that receives the control parameters from the control server via the Internet connection and causes the residential gateway to communicate with the residential device to provide control of the residential device based on the received control parameters.

11. (original) A system for providing automated control of at least one residential device connected to an in-home network, as per claim 10, wherein the residential device is a home irrigation system that comprises:

an irrigation controller connected to the in-home network; and

at least one sprinkler connected to the irrigation controller.

12. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as per ~~claim 11~~ claim 10, wherein the control parameters are a water cycle of the irrigation system.

13. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as per ~~claim 12~~ claim 10, wherein the control information is climatic information.

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14. ~~(cancelled) A system for providing automated control of at least one residential device connected to an in-home network, as per claim 13, wherein the operational information comprises water usage.~~

15. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as ~~claim 14~~ claim 12, wherein the water cycle is also determined based on an economic setpoint.

16. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as per ~~claim 14~~ claim 10, wherein the information server is a weather station server that stores climatic information from a plurality of weather stations.

17. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as per ~~claim 16~~ claim 10, wherein the in-home network uses an IEEE 802.11b wireless interface.

18. (presently amended) A system for providing automated control of at least one residential device connected to an in-home network, as per claim 10, further comprising:

a customer computer system connected to the residential gateway to provide a user with override and control capabilities and to display current and tracked ~~operational state~~ information

19. (original) A system for providing automated control of at least one residential device connected to an in-home network, as per claim 10, wherein the control parameters are also determined based on an economic setpoint.

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20. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, the method comprising:

retrieving relevant control information from one or more information servers on the Internet;

tracking ~~operational~~ state information of the residential device;

determining control parameters of the residential device based on the tracked operational information and the retrieved control information;

communicating the control parameters to the residential gateway via an Internet connection;

wherein the residential gateway communicates with the residential device to provide control of the residential device based on the control parameters.

21. (original) A method of providing automated control of at least one residential device connected to a residential gateway, as per claim 20, wherein the residential device is a home irrigation system that comprises:

an irrigation controller connected to the in-home network; and

at least one sprinkler connected to the irrigation controller.

22. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, as per ~~claim 21~~ claim 20, wherein the control parameters are a water cycle of the irrigation system.

23. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, as per ~~claim 22~~ claim 20, wherein the control information is climatic information.

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24. ~~(cancelled) A method of providing automated control of at least one residential device connected to a residential gateway, as per claim 23, wherein the operational information comprises water usage.~~

25. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, as ~~claim 24~~ claim 22, wherein the water cycle is also determined based on an economic setpoint.

26. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, as per ~~claim 24~~ claim 20, wherein the information server is a weather station server that stores climatic information from a plurality of weather stations.

27. (presently amended) A method of providing automated control of at least one residential device connected to a residential gateway, as per ~~claim 26~~ claim 20, wherein the in-home network uses an IEEE 802.11b wireless interface.

28. (original) A method of providing automated control of at least one residential device connected to a residential gateway, as per claim 20, wherein the control parameters are also determined based on an economic setpoint.